

SEP 01 2000

DECH CENTER 1600, a

1649

RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/894,356C

DATE: 08/24/2000

TIME: 10:47:54

Input Set : A:\1560-308.app

Output Set: N:\CRF3\08232000\H894356C.raw

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TO THE EXPERSE

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SEQUENCE LISTING
 4 (1) GENERAL INFORMATION:
         (i) APPLICANT: ASHIKARI, Toshihiko
                           TANAKA, Yoshikazu
                           FUJIWARA, Hiroyuki
8
                           NAKAO, Masahiro
FUKUI, Yuko
SAKAKIBARA, Keiko
1Û
12
                           MIZUTANI, Masako
                           KUSUNI, Takaaki
        (ii) TITLE OF INVENTION: GENE ENCODING A PROTEIN HAVING ACYL
                                      GROUP TRANSFER ACTIVITY
16
       (iii) NUMBER OF SEQUENCES: 31
18
        (iv) CORRESPONDENCE ADDRESS:
20
               (A) ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS, L.L.P.
21
               (B) STREET: 1737 King Street, Suite 500
22
               (C) CITY: Alexandria
(D) STATE: Virginia
(E) COUNTRY: United States
(F) ZIP: 22314-2756
23
24
25
         (V) COMPUTER READABLE FORM:
               (A) MEDIUM TYPE: Floppy disk
```

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

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C--> 35

C--> 36

(A) APPLICATION NUMBER: US/08/894,356C

(B) FILING DATE: 18-Aug-1997

(C) CLASSIFICATION:

. (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: JP 7-67159

(B) FILING DATE: 17-FEB-1995

(A) APPLICATION NUMBER: JP 7-196915

(B) FILING DATE: 29-JUN-1995

(A) APPLICATION NUMBER: JP 8-46534

(B) FILING DATE: 30-JAN-1996 (A) APPLICATION NUMBER: WO PCT/JP96/00348

52 (B) FILING DATE: 16-FEB-1996 53

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Meuth, Donna M.(B) REGISTRATION NUMBER: 36,607(C) REFERENCE/DOCKET NUMBER: 001560-308

(ix) TELECOMMUNICATION INFORMATION: 60 61

(A) TELEPHONE: (703) 836-6620

(B) TELEFAX: (703) 836-2021

65 (2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

RECEIVED

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TECH CEN

68									airs	3							
69	(B) TYPE: nucleic acid																
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73	, ,																
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77																	
79	(VI)										. 4-	noni	~ -			
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84	•																
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87 (ix) FEATURE: 88 (A) NAME/KEY: CDS																	
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89 92									EQ IE	י חמי	1.						
92) LTADI	.X.T.)	SEQU	CNI	י איני נ	CAL	י אידע	CTC	2000	י היים	י ביי	GAZ	ΔΔΔ	TGC	CAA		47
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96			l Git	. 61.	, ,,,,	. 011				, ,	10		-,-	-1			
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90 1	/al 1	hr t	orn I	orn 9	er 2	ign 1	hr 1	hr A	Sp 1	7a1 0	ilu I	eu S	er I	eu F	ro V	al	
100	15	. 111.	10 1	10 .	JCI F	20			p .		25					30	
100	ACA	ጥጥሮ	ጥጥር	CAT	АТС		TGG	TTG	CAC	TTG		AAG	ATG	CAG	TCC	CTT	143
103	Thr	Phe	Phe	Asp	Tle	Pro	Trp	Leu	His	Leu	Asn	Lvs	Met	Gln	Ser	Leu	
104	1				35					40					45		
106	CTG	ттт	TAC	GAC		CCG	TAC	CCA	AGA	ACA	CAT	TTC	TTG	GAC	ACT	GTT	191
107	Leu	Phe	Tvr	Asp	Phe	Pro	Tyr	Pro	Arq	Thr	His	Phe	Leu	Asp	Thr	Val	
108			-4	50			•		55					60			
110	ATC	CCT	AAT	CTT	AAG	GCC	TCT	TTG	TCT	CTC	ACT	CTA	AAA	CAC	TAC	GTT	239
111	Ile	Pro	Asn	Leu	Lys	Ala	Ser	Leu	Ser	Leu	Thr	Leu	Lys	His	Tyr	Val	
112			65					70					75				
114	CCG	CTT	AGC	GGA	AAT	TTG	TTG	ATG	CCG	ATC	AAA	TCG	GGC	GAA	ATG	CCG	287
115	Pro	Leu	Ser	Gly	Asn	Leu	Leu	Met	Pro	Ile	Lys	Ser	Gly	Glu	Met	Pro	
116		80					85					90					
118	AAG	TTT	CAG	TAC	TCC	CGT	GAT	GAG	GGC	GAC	TCG	ATA	ACT	TTG	ATC	GTT	335
119	Lys	Phe	Gln	Tyr	Ser	Arg	Asp	Glu	Gly	Asp	Ser	Ile	Thr	Leu	Ile	Val	
120	95					100					105					110	
122	GCG	GAG	TCT	GAC	CAG	GAT	TTT	GAC	TAC	CTT	AAA	GGT	CAT	CAA	CTG	GTA	383
123	Ala	Glu	Ser	Asp		Asp	Phe	Asp	Tyr		Lys	Gly	His	Gln	Leu	Val	
124					115					120					125		421
126	GAT	TCC	AAT	GAT	TTG	CAT	GGC	CTT	TTT	TAT	GTT	ATG	CCA	CGG	GTT	ATA	431
	Asp	Ser	Asn		Leu	His	Gly	Leu		Tyr	Val	Met	Pro	Arg	val	тте	
128				130					135					140	~		470
130	AGG	ACC	ATG	CAA	GAC	TAT	AAA	GTG	ATC	CCG	CTC	GTA	GCC	GTG	CAA	GTA	479
	Arg	Thr		Gln	Asp	Tyr	Lys		Ile	Pro	Leu	۷al	Ala	val	GIN	vaı	
132			145					150					155		~~~	C 3 M	507
134	ACC	GTT	TTT	CCT	AAC	CGT	GGC	ATA	GCC	GTG	GCT	CTG	ACG	GCA	CAT	CAT	527
135	Thr	Val	Phe	Pro	Asn	Arg	Gly	Ile	Ala	۷al	Ala	Leu	rnr	ΑΙΑ	HIS	HIS	•

DATE: 08/24/2000 TIME: 10:47:54 RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/894,356C

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Output Set: N:\CRF3\08232000\H894356C.raw

136		160					165					170					
138	TCA	ATT	GCA	GAT	GCT	AAA	AGT	TTT	GTA	ATG	TTC	ATC	AAT	GCT	TGG	GCC	575
139	Ser	Ile	Ala	Asp	Ala	Lys	Ser	Phe	Val	Met	Phe	Ile	Asn	Ala	Trp	Ala	
140	175					180					185					190	
142	TAT	ATT	AAC	AAA	TTT	GGG	AAA	GAC	GCG	GAC	TTG	TTG	TCC	GCG	AAT	CTT	623
143	Tyr	Ile	Asn	Lys	Phe	Gly	Lys	Asp	Ala	Asp	Leu	Leu	Ser	Ala	Asn	Leu	
144	-			-	195					200					205		
146	CTT	CCA	TCT	TTC	GAT	AGA	TCG	ATA	ATC	AAA	GAT	CTG	TAT	GGC	CTA	GAG	671
147	Leu	Pro	Ser	Phe	Asp	Arq	Ser	Ile	Ile	Lys	Asp	Leu	Tyr	Gly	Leu	Glu	
148				210	-	_			215	-				220			
	GAA	ACA	TTT		AAC	GAA	ATG	CAA	GAT	GTT	CTT	GAA	ATG	TTC	TCT	AGA	719
151	Glu	Thr	Phe	Trp	Asn	Glu	Met	Gln	Asp	Val	Leu	Glu	Met	Phe	Ser	Arq	
152			225					230					235			_	
	TTT	GGA		AAA	CCC	CCT	CGA	TTC	AAC	AAG	GTA	CGA	GCT	ACA	TAT	GTC	767
	Phe																
156	1 110	240	501	D , S		110	245			-10		250			-4-		
	CTC		СФФ	CCT	CAA	ΔTC		AAG	СТА	AAG	AAC		GTA	CTG	AAT	CTC	815
	Leu																_
	255	JCI	D¢ u	2114	014	260	01	2,0			265	-3-5				270	
	AGA	CCA	ጥርር	CAA	CCG		ልጥል	CCT	GTA.	ACG		ጥጥር	ACA	ATG	ACG		863
	Arg																
164	AI 9	GLY	361	GIU	275	1111	110	9	141	280					285	-1-	
	GGA	ሞአሮ	CTA	TCC		TCC	λπс	GTC	ΔΔΔ		ΔΔΔ	CAT	GAC	GTC		TCA	911
	Gly																
168	GIY	ıyı	vai	290	1111	Cys	Mec	441	295	Jei	цуз	пор	пор	300	, 44	001	
	GAG	CAA	mc a		7 7 C	CAC	CAA	አአጥ		CTC	CAC	TAC	ጥጥር		արար	ACA	959
170	Glu	Clu	Cox	Cox	AAC	Agn	Clu	VCI	Clu	Tau	Clu	Tur	Dho	Sor	Dhe	Thr	,,,,
172	GIU	GIU	305	ser	ASII	кър	GIU	310	GIU	пец	Giu	171	315	361	riic	1111	
174	GCG	CATE	303	CCA	CCA	cmm	CTC		ccc	CCC	mem.	ccc		ልልሮ	ጥልሮ	արար	1007
175	Ala	GAI	160	A ==	Clar	LOU	LOU	mh-	Dro	Dro	Cue	Pro	Dro	Acn	Tur	Dhe	1007
176	Ala	320	Cys	AIG	GIY	neu	325	1111	FIU	FIO	Cys	330	110	7,511	-1-	1	
	GGC		מוכי מי	C m m	ccc	תיכי א		CTT	CCA	מממ	CCA		САТ	ΔΔΔ	GAG	ጥጥል	1055
	Gly																1033
	335	ASII	Cys	Бец	Ala	340	Cys	Val	AIG	Буз	345	1111	1113	Lys	Olu	350	
	GTT	000	C N ID	233	ccc		cmm	COO	CCA	C mm		CCT	አ ጥጥ	CCA	$C \Lambda \Lambda$		1103
	Val																1103
	val	GIY	ASP	гуз	355	Leu	ren	val	нта	360	АТа	Ala	116	GIY	365	ALG	
184	3 mm			3.00		0.0	* * *	C 3 3	222		Cmm	CMM	CCA	CAM		אאא	1151
	ATT																1131
	Ile	GIU	гĀг	_	Leu	HIS	ASII	GIU	-	GTĀ	Val	neu	нта	380	AIA	цуз	
188		ma.c		370		mam	3300	CC.	375	CCI	mc a	* * *	3 (2 3		CTC	ccc	1199
	ACT																1133
	Thr	Trp		ser	GIU	ser	ASII		116	PIO	ser	пλг	395	FILE	ьeu	GLY	
192			385		~~~			390	maa	m = m	aam	am 2		mmm	CCN	mcc	1247
194	ATT	ACC	GGA	TCG	CCT	AAG	TTC	GAT	TCG	TAT	GGT	GTA	GAT Ac-	Db-	CI	m×-	1247
	Ile		стÃ	ser	Pro	ьys		Asp	ser	LÀL	GTÀ		Asp	rne	GTĀ	тър	
196		400				mme	405		100	mar	0.00	410	mam	CCZ	CAR	mmc	1205
198	GGA	AAG	CCT	GCA	AAA	TTT	GAC	ATT	ACC	TCT	GTT	GAT	TAT	GCA	GAA	TIG	1295
	Gly	Lys	Pro	Ala	ГЛS		Asp	IIe	rnr	ser		Asp	Tyr	Ата	GIU	Leu 120	
200	415					420					425					430	

DATE: 08/24/2000 RAW SEQUENCE LISTING PATENT APPLICATION: US/08/894,356C TIME: 10:47:54 Input Set : A:\1560-308.app Output Set: N:\CRF3\08232000\H894356C.raw 202 ATT TAT GTG ATT CAG TCC AGG GAT TTT GAA AAA GGT GTG GAG ATT GGA 203 Ile Tyr Val Ile Gln Ser Arg Asp Phe Glu Lys Gly Val Glu Ile Gly 440 445 435 206 GTA TCA TTG CCT AAG ATT CAT ATG GAT GCA TTT GCA AAA ATC TTT GAA 1391 207 Val Ser Leu Pro Lys Ile His Met Asp Ala Phe Ala Lys Ile Phe Glu 450 210 GAA GGC TTT TGC TCT TTG TCA TAGTCTCTTT AATAGAACCA TATTTGCTGC 1442 211 Glu Gly Phe Cys Ser Leu Ser 212 465 214 AATAAAGTAC CAAGTCCTTT AGTAACACTA CACCAAACCC TACTTTCGAG GCGGGAACAC 1502 216 CACAACGAGG TTCAATCACT AGAAGGTTGT ACTTCATAAA TTCCAGAGGT CGAATATACA 1562 218 CCGTTGTCCT CTGAAAAGTT GAACCTCACA CCTGACATGG TGTTACGATA GGTATTGTAT 1622 220 AATGCCATTA TATACTTCCA TAAAGTATCC TATGCAATAG AGAACATGTT ATGTGTTAAA. 1682 1703 222 ΑΑΑΑΑΑΑΑΑΑ ΑΑΑΑΑΑΑΑΑΑ Α 225 (2) INFORMATION FOR SEQ ID NO: 2: (i) SEQUENCE CHARACTERISTICS: 227 (A) LENGTH: 1622 base pairs (B) TYPE: nucleic acid 228 229 (C) STRANDEDNESS: double (D) TOPOLOGY: linear 231 (ii) MOLECULE TYPE: cDNA to mRNA 233 (iii) HYPOTHETICAL: NO 235 (iv) ANTI-SENSE: NO 237 (vi) ORIGINAL SOURCE: 239 (A) ORGANISM: Gentiana triflora va. japonica 240 (F) TISSUE TYPE: petal 241 (vii) IMMEDIATE SOURCE: 243 (A) LIBRARY: cDNA library (B) CLONE: pGAT106 244 245 (ix) FEATURE: 247 (A) NAME/KEY: CDS 248 (B) LOCATION: 35..1471 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 254 GAACCATTGA ATCCAATTAA TCTGATTTAT TAAG ATG GCA GGA AAT TCC GAG Met Ala Gly Asn Ser Glu 255 256 258 GAT ATC AAA GTT CTT GAG AAA TGC CGT GTT GCG CCA CCA CCG GAC GCC 100 259 Asp Ile Lys Val Leu Glu Lys Cys Arg Val Ala Pro Pro Pro Asp Ala 260 262 GTC GCC GAG TTT ACA GTC CCA CTG TCG TTT TTC GAC ATG CGA TGG TTG 148 263 Val Ala Glu Phe Thr Val Pro Leu Ser Phe Phe Asp Met Arg Trp Leu 35 30 266 ATC TCT GAT GCA GAA CAC CAT CTG CAT TTC TAC AGA TTC CGC CAT CCT 25 196 267 Ile Ser Asp Ala Glu His His Leu His Phe Tyr Arg Phe Arg His Pro 45 270 TGT CCC AAC TCT AAA TTT ATC ATT TCA TCC ATT AAA TCG TCC CTT TCC 271 Cys Pro Asn Ser Lys Phe Ile Ile Ser Ser Ile Lys Ser Ser Leu Ser 40 244

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274 CTT GTT CTC AAA CAC TTT CTT CCG TTA GCC GGG AAT TTG ATT TGG CCG

272 55

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RAW SEQUENCE LISTING PATENT APPLICATION: US/08/894,356C DATE: 08/24/2000 TIME: 10:47:54

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275	Leu	Val	Leu	Lys	His	Phe	Leu	Pro	Leu	Ala	Gly	Asn	Leu	Ile	Trp	Pro	
276					75					80					85		
								CCG									340
279	Val	Asp	Ser	Ser	Asp	Arg	Met	Pro	Glu	Leu	Arg	Tyr	Lys	Lys	Gly	Asp	
280				90					95					100			
282	TCC	GTT	TCT	TTA	ACA	ATT	GCA	GAA	TCG	AGC	ATG	GAT	TTT	GAT	TAT	CTC	388
								Glu									
284			105					110					115				
	GCC	GGA	GAT	CAT	CAG	AGG	GAT	TCT	TAT	AAA	TTC	AAC	GAT	TTG	ATT	CCG	436
287	Ala	Glv	Asp	His	Gln	Arg	Asp	Ser	Tvr	Lvs	Phe	Asn	Asp	Leu	Ile	Pro	
288		120				_	125		-	-		130	-				
	CAG		CCA	GAA	CCG	ATT	GTA	ACC	TCC	GGC	GAC	GAA	GTA	TTA	CCA	CTT	484
								Thr									
292						140					145					150	
		ōeт.	TTA	CAG	GTG		GTG	TTC	TCC	AAC	ACC	GGT	ATA	TGC	ATT	GGA	532
								Phe									
296			Deu	V	155					160		1		-2-	165		
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200	Ara	λen	T.OII	His	Gln	Val	Len	Gly	Asn	Ala	Ser	Ser	Phe	Leu	His	Phe	
300	AT 9	1311	пси	170	01	• • •	пси	017	175			501		180			
	አልጥ	222	ባነጥ Δ		CTT	ጥጥር	CTT	GAC		ጥርር	аат	GGA	GAT		TTA	AAG	628
303	yen	Luc	T.O.I.	Trn	Val	T.Au	Val	Asp	Lve	Ser	Asn	Glv	Asp	Ser	Len	LVS	
304	uan,	Lly 3	185	11.5	• • •	LCu		190	270			0-7	195			-4-	
	ጥጥር	Cum		Стт	ጥሮጥ	ምርጥ	СТА	CCT	ΔТС	ጥልር	CAC	AGA		GTG	GTG	CAA	676
								Pro									• • •
308	rne	200	110	шси	JCI	001	205		1.00	-1-		210				0_11	
	CAT		ጥጥጥ	СЪТ	Σ ጥጥ	CGT		AAA	ልጥሮ	ጥልሮ	ТАА		AGA	AAA	СТС	CTC	724
311	yen	Dro	Dho	Hie	Tla	Δra	Ara	Lys	Tle	Tur	Asn	Glu	Ara	Lvs	Len	Leu	
	215	FIO	riic	11.13	110	220	9	4,5	110	-] ~	225	010		-10		230	
		መረጥ	CAG	ccc	ACA		ΔΟΤ	GTT	CTA	Тαα		GCA	ΔТТ	ጥርጥ	AAA		772
								Val									
316	цуз	261	GIII	GLY	235	110	1111	• • •		240					245		
	CAA	COM	CCA	ccc		ጥጥር	ΔTC	СТА	CAC		Δጥጥ	GAT	ATC	ATG		СТС	820
								Leu									020
320	Giu	Vul	AL 9	250	1111	1 110	110	Deu	255					260	-,,		
	አስሮ	מממ	መሞር		TCC	ሞሮል	ΔΔΔ	AAT		AAC	ጥጥል	ACC	CCT		ACT	таа	868
								Asn									000
324	пуs	цуз	265	116	261	261	Dys	270	ur 9	H3II	пси	1111	275	DCI	501		
	mam	ъъπ		mc x	a cm	mm/c	NOG.	GTG	אכא	mcm	CCA	CTC		TCC	ACA	TGC	916
227	101	UUI	LOU	Cor	Thr.	Dho	Thr	Val	Thr	Sor	Δla	Len	Tle	Trn	Thr	Cve	,,,,
328	TYL	280	пеп	361	1 111	FILE	285	Val	1111	361	AIG	290	110	110	1111	C 7 3	
	mmc		222	መሮ እ	mm A	CAC		GTC	СТА	ACA	CAG		GTG.	CAA	GAG	CAT	964
								Val									50.
		ser	ьуѕ	ser	Leu	300	1111	Vai	vai	ALG	305	uys	Val	GIU	GIU	310	
332		C 3 M	CCA	CCA	220		mcm	GCT	mmc	אשכ		TICC.	CCA	C A A	ССТ		1012
																	1012
	ьys	HIS	HIG	HIG		neu	Cys	Ala	sue	320	ASII	CYS	AIG	OTII	325	FILE	
336		000	ccc	1 m 1	315	C 2 2	2 2 17	mac	mmer		חממ	mc c	א מוזי א	CTC		ጥርጥ	1060
338	GCT	Doc	Date	ATA	Dws	CAA	AAT	TAC	TTT	Clas	AAT	CVC	TIC	Va 1	Dro	CAC	1000
339	АТА	PIO	PIO	тте	PIO	GIU	ASI	Tyr	File	GTÀ	ASII	Cys	116	vai	210	Cys	

VERIFICATION SUMMARY
PATENT APPLICATION: US/08/894,356C DATE: 08/24/2000
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Input Set : A:\1560-308.app

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L:35 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:36 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:] L:867 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 L:876 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:880 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:884 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:888 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:892 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:896 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:900 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:904 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:908 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:912 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:916 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:920 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:924 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:928 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:932 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:936 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:940 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:944 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:948 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:952 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:956 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:960 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:964 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:968 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:972 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:976 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:980 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6 L:1402 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:29 L:1442 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:31

111- ""07/7860 home